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U.S. PATENT DOCUMENTS

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Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	08/05/97	5,653,977	Saleh		22	
	3.	06/23/87	4,675,287	Reisfeld et al.			^
	3.	09/15/87	4,693,966	Houghton et al.		. / 0	EIVED
	4.	02/02/88	4,722,840	Valenzuela et al.	72	CH CENTER 16	
	5.	07/18/89	4,849,509	Thurin et al.		OFNE	<002
	6.	02/27/90	4,904,596	Hakomori		ER 1	
V	7.	04/1/7/90	4,918,164	Hellstrom et al.		_	00/2900
	8.	04/23/91	5,009,995	Albino et al.			
	9.	10/01/91	5,053,224	Koprowski et al.	//-		
	10.	10/15/91	5,057,540	Kensil et al.	1		
	11.	02/25/92	5,091,177	Hellstrom et al.			
	12.	04/07/92	5,102,663	Livingston et al.			
	13.	07/28/92	5,134,075	Hellstrom et al.			
•	14.	08/25/92	5,141,742	Brown et al.			
	15.	05/04/93	5,208,146	Irie			
4	16.	08/31/93	5,240,833	Nudelman et al.			
	17.	09/07/93	5,242,824	Hellstrom et al.			
	18.	12/14/93	5,270,202	Raychaudhuri			
	19.	05/03/94	5,308,614	Hakomori			
	20.	06/25/96	5,529,922	Chapman et al.			
	21.	11/05/96	5,571,900	Wiegand et al.			
	22.	03/18/97	5,612,030	Chatterjee et al.			
	•	4	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			

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FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	23.	02/13/86	WO 86/00909	PCT			
	24.	05/16/90	0368131	Europe		REC	E/1 /5
	25.	11/12/92	WO 92/19266	PCT		- 01	FIVED
	26.	09/08/93	0280209	Europe		JAN 3	0 2002
•	27.	08/04/94	WO 94/16731	PCT		ILCH CENT	
·	28.	10/13/94	WO 94/22479	PCT		LOW DENVIEW	1600/2900
V .	29.	02/16/95	WO 95/04548	PCT			/ = 00
	30.	07/05/95	0661061	Europe			
	31.	12/21/95	WO 95/34638	PCT			
	32.	07/25/96	WO 96/22373	PCT			

OTHER DOCUMENTS

(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	No.	Title
•	33.	Derwent® Survey of EP 0368131 (05/16/90).
	34.	1A7 Heavy Chain Protein Genbank Search.
7	35.	1A7 Light Chain Protein Genbank Search.
	36.	1A7 Heavy Chain DNA Genbank Search.
	37.	1A7 Light Chain DNA Genbank Search.
_	38.	Angeles et al., "Isoabzymes: Structurally and mechanistically similar catalytic antibodies from the same immunization" <u>Biochemistry</u> (1993) <u>32</u> :12128-12135.
	39.	Bhattacharya-Chatterjee et al., "Anti-idiotype antibodies as potential therapeutic agents for human breast cancer" In Antigen and Antibody Molecular Engineering in Breast Cancer Diagnosis and Treatment, Conference on Breast Cancer Therapy Immunology, R.L. Ceriani (Ed.), Plenum Press, N.Y., pages 139-148, 1994.
	40.	Bhattacharya-Chatterjee et al., "Idiotype vaccines against human T cell acute lymphoblastic leukemia. I. Generation and characterization of biologically active monoclonal anti-idiotypes" <u>J. Immunol.</u> (1987) 139:1354-1360.
	41.	Bhattacharya-Chatterjee et al., "Idiotype vaccines against human T-cell leukemia" <u>J. Immunol.</u> (1988) <u>141</u> :1398-1403.
	42.	Bhattacharya-Chatterjee et al., "Idiotypic antibody immunotherapy of cancer" <u>Cancer Immunol.</u> <u>Immunother.</u> (1994) <u>38</u> :75-82.

EXAMINER:

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Exacting Initials	No.	Title		author Mule Trate, Pertinent Pages, Etc.)
	43.	Bhattacharya-Chatterjee et al., "Murin antigen for human carcinoembryonic a		•
	44.	Bhattacharya-Chatterjee et al., "Synge antibody to human melanoma associat	neic monoclonal anti-idiotype a	ntibodies against a monoclonal
	45.	Bird et al., "Single-chain antigen-bind		<u> </u>
•	46.	Blier et al., "A limited number of B ce response" J. Immunol. (1987) 139:399		geneity of a secondary immune
Υ,	47.	Chakraborty et al., "Induction of huma monkeys by a murine monoclonal anti		
-	48.	Chapman et al., "Induction of IgG antimonoclonal antibody" J. Clin. Invest.		n rabbits by an anti-idiotypic
	49.	Charbonnier et al., "Structural convergence (1997) 275:1140-1142.	gence in the active sites of a fam	ily of catalytic antibodies"
	50.	Chattopadhyay et al., "Murine monoclinduces a specific antibody response to cynomolgus monkeys" Proc. Natl. Academic Academic Proc. Natl. Academic Proc. Nat	o human melanoma-associated p	roteoglycan antigen in
•	51.	Cheresh et al., "Biosynthesis and expron small cell lung carcinoma for mono 46:5112-5118.		
ંક	52.	Cheresh et al., "Disialoganglioside G _D and neuroblastoma cells to extracellul		
	53.	Cheresh et al., "Disialoganglioside GI microprocesses on human melanoma (1986) 102:1887-1897.		
	54.	Cheresh et al., "Localization of the ga of human melanoma cells" Proc. Natl.		• •
	55.	Cheung et al., "Antibody response to survival" Cancer Res. (1994) 54:2228		bodies: correlation with patient
	56.	Cheung et al., "Disialoganglioside G _D : 54:499-505.	anti-idiotypic monoclonal antib	oodies" Int. J. Cancer (1993)
	57.	Cheung et al., "Ganglioside G _{D2} specific neuroblastoma and malignant melanor		
	58.	Cochran et al., "In vitro mutagenesis of tandem early and late regulatory signal		inia virus gene: evidence for
			1	
EXAMI	NER:		DATE CONSIDERED:	
		al if citation considered, whether or not the citation considered. Include a copy of this form with i		line through the citation if not in



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Examiner Initials	Ref. No.	Title OTHER DOCUMENTS (including history jitle, Date, Perlipant Pages, Etc.) Title Converted. "A correspondence on tigen polymorphism pages activity"
	59.	Conry et al., "A carcinoembryonic antigen polynucleotide vaccine has in vivo antitumor activity" Gene Therapy (1995) 2:59-65.
	60.	Foon et al., "Immune response to the carcinoembryonic antigen in patients treated with an anti-idiotype antibody vaccine" J. Clin. Invest. (1995) 96:334-342.
	61.	Foon et al., "Anti-idiotype antibodies: novel therapeutic approach to cancer therapy" <u>Immunology</u> <u>Series</u> (1994) <u>61</u> :281-292.
•	62.	Guo et al., "Mechanistically different catalytic antibodies obtained from immunization with a single transition-state analog" Proc. Natl. Acad. Sci. USA (1995) 92:1694-1698.
Ţ	63.	Hamilton et al., "Ganglioside expression on human malignant melanoma assessed by quantitative immune thin-layer chromatography" Int. J. Cancer (1993) 53:566-573.
	64.	Hamilton et al., "Ganglioside expression on sarcoma and small-cell lung carcinoma compared to tumors of neuroectodermal origin" Proc. Am. Assoc. Cancer Res. (1993) 34:491 (Abstract 2928).
	65.	Handgretinger et al., "A phase I study of neuroblastoma with the anti-ganglioside GD2 antibody 14G2a" Cancer Immunol. Immunother. (1992) 35:199-204.
	66.	Hastings et al., "Production and characterization of a murine/human chimeric anti-idiotype antibody that mimics ganglioside" Cancer Res. (1992) 52:1681-1686.
	67.	Hawkins et al., "A genetic approach to idiotypic vaccination" J. Immunother. (1993) 14:273-278.
·	68.	Hawkins et al., "Plasmid vaccination against B-cell lymphoma" Cancer Gene Therapy (1994) 1(3):208.
	69.	Heidenheim et al., "CDw60, which identifies the acetylated form of G _D 3 gangliosides, is strongly expressed in human basal cell carcinoma" <u>Brit. J. Dermatol.</u> (1995) <u>133</u> :392-397.
	70.	Helling et al., "Ganglioside conjugate vaccines" Mol. Chem. Neuropath. (1994) 21:299-309.
	71.	Hruby et al., "Fine structure analysis and nucleotide sequence of the vaccinia virus thymidine kinase gene" Proc. Natl. Acad. Sci. USA (1983) 80:3411-3415.
	72.	Imclone Systems Incorporated Annual Report, 1995.
	73.	Irie et al., "Regression of cutaneous metastatic melanoma by intralesional injection with human monoclonal antibody to ganglioside GD2" Proc. Natl. Acad. Sci. USA (1986) 83:8694-8698 .
	74.	Kanda et al., "Both V _H and V _L regions contribute to the antigenicity of anti-idiotypic antibody that mimics melanoma associated ganglioside GM ₃ " Cell Biophys. (1994) 24/25:65-74.
	75.	Kaufman et al., "A recombinant vaccinia virus expressing human carcinoembryonic antigen (CEA)" Int. J. Cancer (1991) 48:900-906.
	76.	Leahy et al., "Sequences of 12 monoclonal anti-dinitrophenyl spin-label antibodies for NMR studies Proc. Natl. Acad. Sci. USA (1988) 85:3661-3665.

EXAMINER:

DATE CONSIDERED:



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INFORMATION DISCLOSUS CITY TION IN AN APPLICATION

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Application Number To Be Assigned

Applicant

Malaya Chatterjee dyal

Filing Date Herewith

Group Art Unit Total Assigned

OTHER DOCUMENTS (including author, Ref. Title Examiner **Initials** No. 77. Livingston et al., "GD3/proteosome vaccines induce consistent IgM antibodies against the ganglioside GD3" Vaccine (1993) 11(12):1199-1204. Livingston, "Approaches to augmenting the immunogenicity of melanoma gangliosides: from whole 78. melanoma cells to ganglioside-KLH conjugate vaccines" Immunol. Rev. (1995) 145:147-166. Mittelman et al., "Human high molecular weight melanoma-associated antigen (HMW-MAA) 79. mimicry by mouse anti-idiotypic monoclonal antibody MK2-23: Induction of humoral anti-HMW-MAA immunity and prolongation of survival in patients with stage IV melanoma" Proc. Natl. Acad. Sci. USA (1992) 89:466-470. 80. Mittelman et al., "Kinetics of the immune response and regression of metastatic lesions following development of humoral anti-high molecular weight-melanoma associated antigen immunity in three patients with advanced malignant melanoma immunized with mouse antiidiotypic monoclonal antibody MK2-23" Cancer Research (1994) 54:415-421. 81. Miyashita et al., "A common ancestry for multiple catalytic antibodies generated against a single transition-state analog" Proc. Natl. Acad. Sci. USA (1994) 91:6045-6049. 82. Moss, "Vaccinia virus: A tool for research and vaccine development" Science (1991) 252:1662-1667. 83. Mujoo et al., "Disialoganglioside G_{D2} on human neuroblastoma cells: Target antigen for monoclonal antibody-mediated cytolysis and suppression of tumor growth" Cancer Res. (1987) 47:1098-1104. 84. Mujoo et al., "Functional properties and effect on growth suppression of human neuroblastoma tumors by isotype switch variants of monoclonal antiganglioside G_{D2} antibody 14.18" Cancer Res. (1989) 49:2857-2861. 85. Nahmias et al., "The immune response toward β-adrenergic ligands and their receptors. VIII. Extensive diversity of V_H and V_L genes encoding anti-alprenolol antibodies" J. Immunol. (1988) 140:1304-1311. 86. Posnett et al., "A novel method for producing anti-peptide antibodies" J. Biol, Chem. (1988) 263:1719-1725. 87. Qin et al., "Construction of recombinant vaccinia virus expressing GM-CSF and its use as tumor vaccine" Gene Therapy (1996) 3:59-66. 88. Reininger et al., "Cryoglobulinemia induced by a murine IgG3 rheumatoid factor: Skin vasculitis and glomerulonephritis arise from distinct pathogenic mechanisms" Proc. Natl. Acad. Sci. USA (1990) 87(24):10038-10042. 89. Russell et al., "Plasmid vaccination to elicit anti-idiotypic immune responses against surface immunoglobin-positive B-cell malignancies" Brit. J. Haematology (1994) 86(No. Suppl. 1):74 (Abstract P146).

EXAMINER:

DATE CONSIDERED:

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INFORMATION DISCLOSURE TATION IN AN APPLICATION

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Filing Date Herewith

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		OTHER DOCUMENTS (including author, title, Date, Period Prages, Etc.
Examiner Initials	Ref. No.	Title
	90.	Saleh et al., "Generation of a human anti-idiotypic antibody that mimics the GD2 antigen" <u>J. Immunol.</u> (1993) <u>151(6)</u> :3390-3398.
	91.	Saleh et al., "Phase I trial of the murine monoclonal anti-G _{D2} antibody 14G2a in metastatic melanoma" <u>Cancer Res.</u> (1992) <u>52</u> :4342-4347.
	92.	Seaver, "Monoclonal antibodies in industry: More difficult than originally thought" Genetic Engineering News (August 1994) pp. 10, 21.
	93.	Sen et al., "Induction of IgG antibodies by an anti-idiotype antibody mimicking disialoganglioside GD2" Galley Proof of article accepted for publication in <u>J. Immunother.</u> (1997), 9 pages total.
	94.	Sen et al., "Murine monoclonal antibody-idiotype antibody breaks tolerance and induces specific antibody response to human disialoganglioside GD2 in cynomolgus monkeys" <u>Abstract presented at the 9th International Congress of Immunology</u> , San Francisco, California, July 23-29, A5250, page 885, 1995.
	95.	Sen et al., "Murine monoclonal anti-idiotype (Id) antibody induces specific humoral responses to the GD2 ganglioside in melanoma patients" <u>Abstract submitted for AAAAI/AAI/CIS Joint Meeting</u> ,1997.
	96.	Spooner et al., "DNA vaccination for cancer treatment" Gene Therapy (1995) 2:173-180.
•	97.	Stenzel-Poore et al., "Clonal diversity, somatic mutation, and immune memory to phosphocholine-keyhole limpet hemocyanin" <u>J. Immunol.</u> (1989) <u>143</u> :4123-4133.
	98.	Tam, "High-density multiple antigen-peptide system for preparation of antipeptide antibodies" Methods Enzymol. (1989) 168:7-15.
	99.	Tang et al., "Genetic immunization is a simple method for eliciting an immune response" Nature (1992) 356:152-154.
	100.	Tsuchida et al., "Gangliosides of human melanoma" J. Natl. Cancer Inst. (1987) 78:45-54.
	101.	Wang et al., "Immunization by direct DNA inoculation induces rejection of tumor cell challenge" Human Gene Therapy (1995) 6:407-418.
	102.	Yamamoto et al., "Anti-idiotype monoclonal antibody carrying the internal image of ganglioside GM3" J. Natl. Cancer Inst. (1990) 82(22):1757-1760.

EXAMINER:

DATE CONSIDERED: